

	Description
Function	Trainee
Location / Contact	AC Immune SA, EPFL Innovation Park, Building B, 1015 Lausanne careers@acimmune.com
Percentage	100 % - 6 months internship
Reporting Line	Senior Scientist in the Chemistry team
Company Profile	<ul style="list-style-type: none"> AC Immune is a clinical stage Swiss biotech company focused on the development of innovative therapeutics and diagnostics for Alzheimer's and other neurodegenerative diseases 150+ Employees, 20+ nationalities, IPO in 2016, listed on NASDAQ AC Immune SA is a progressive, equal opportunity employer
Job description	<p>Trainee position within AC Immune's R&D department, to support the discovery and development of new drugs for the treatment of neurodegenerative and inflammatory diseases.</p> <p>AC Immune is seeking a motivated candidate with a strong scientific background in computational biology and biochemistry. The candidate will be contributing to the exploration and implementation of computational methods applied to drug design, with a focus on molecular docking and protein-ligand interaction studies.</p> <p>The candidate must keep an excellent record of the <i>in silico</i> experiments and comprehensive documentation using electronic notebooks.</p>
Key Responsibilities	<ul style="list-style-type: none"> Execute standard analysis of apo and holo protein structures with small molecules and generate quantitative structure activity relationships and calculate docking scores and potential binding energies. Perform virtual screening and analyze of protein-ligand interactions using docking softwares (e.g. AutoDock Suite and PyRx) Assist in the interpretation and visualization of docking results using computation tools (e.g. Pymol and AlphaFold) Analyze, record/document and present the scientific results Collaborate with biologist and chemist and participate in general data management activities with data science team
Qualifications & Skills	<p>Required:</p> <ul style="list-style-type: none"> Last year of a master's/engineer degree in biotechnology, computer science, computational biology or similar discipline. Familiarity with structural biological tools such Pymol and Chimera or other molecular visualization programs. Experience with Linux/Unix environments and command-line tools is a plus. Basic knowledge of machine learning or data science frameworks (e.g. scikit-learn) is advantageous but not required. <p>Personal features should include:</p> <ul style="list-style-type: none"> Team player paired with autonomy and organization skills Good spoken and written English are required